Supplementary Information

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Section S1. Data

Section S1.1. Data description

Table S1 and S2 describe the dataset used in this study. The happiness scores were obtained from the World Happiness Report, which was averaged over three years to adjust for short-term fluctuations. The average happiness score is 6.373, with a maximum of 7.769 for Finland and a minimum of 4.549 for Iran. UGS is calculated from Sentinel-2 satellite imagery data, and GDP per capita (PPP) data is obtained from the IMF estimation.

We used the data of 60 developed countries selected by comparing the HDI of the countries. Andorra, Bahamas, Barbados, Brunei, Cyprus, Lichtenstein, Palau, and Seychelles are excluded from the analysis due to a lack of data for happiness.

Country	City counts	Population [%]	Happiness	UGS	log-GDP
Finland	1	28.23	7.77	5.73	10.70
Iceland	1	38.05	7.49	5.47	10.87
Lithuania	1	19.25	6.15	5.46	10.44
New Zealand	1	34.57	7.31	5.33	10.60
Slovenia	1	13.99	6.12	5.32	10.45
Croatia	1	19.82	5.43	5.23	10.11
Montenegro	1	31.07	5.52	5.21	9.85
Italy	1	7.21	6.22	5.17	10.56
Slovakia	2	12.25	6.20	5.16	10.46
Estonia	1	33.12	5.89	5.15	10.39
United States	3	12.76	6.89	5.13	11.03
Latvia	1	32.95	5.94	5.05	10.28
Sweden	2	15.01	7.34	5.00	10.88
Switzerland	4	10.87	7.48	4.98	11.04
Norway	1	12.80	7.54	4.97	11.19
Canada	1	18.26	7.28	4.96	10.80
Serbia	1	23.99	5.60	4.93	9.67
Poland	4	10.09	6.16	4.88	10.34
Germany	5	10.54	7.02	4.79	10.85
Hungary	1	17.89	5.82	4.78	10.31

Table S1. Data used in the study. Countries are ordered by UGS. We aggregate city-level data to cover at least 10% of total population.

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Country	City counts	Population [%]	Happiness	UGS	log-GDP
Czech Republic	1	12.13	6.85	4.75	10.50
	3	12.13 11.67	5.69	$4.73 \\ 4.72$	10.30 10.32
Portugal	1		5.09	$\frac{4.72}{4.70}$	
Bulgaria	1	18.69			10.02
Australia	3	19.55	7.23	4.69	10.86
Netherlands	1	10.71	7.49	4.52	10.91
Luxembourg		30.40	7.09	4.49	11.59
Ireland	1	11.62	7.02	4.36	11.24
United Kingdom	1	13.42	7.05	4.28	10.72
Trinidad and Tobago	1	12.76	6.19	4.25	10.46
Uruguay	1	39.42	6.29	4.16	10.06
Spain	1	13.97	6.35	4.15	10.59
Russia	2	12.50	5.65	4.12	10.24
Belarus	1	20.82	5.32	4.12	9.82
Austria	1	21.42	7.25	4.11	10.83
Panama	1	27.74	6.32	4.06	10.15
Kazakhstan	1	11.13	5.81	4.06	10.19
Albania	1	23.32	4.72	4.06	9.51
Mauritius	1	29.03	5.89	3.94	10.05
Costa Rica	1	32.68	7.17	3.93	9.79
Belgium	1	10.58	6.92	3.91	10.76
Denmark	1	10.78	7.60	3.89	10.82
Romania	2	10.93	6.07	3.87	10.13
France	1	10.62	6.59	3.72	10.72
Malaysia	1	12.19	5.34	3.64	10.31
Argentina	2	10.13	6.09	3.33	9.98
Turkey	1	18.34	5.37	3.28	10.05
Greece	1	24.11	5.29	3.28	10.30
Malta	3	13.05	6.73	3.17	10.64
Chile	1	30.54	6.45	3.05	10.15
Japan	1	10.63	5.89	3.03	10.63
Iran	1	10.86	4.55	2.90	9.91
Singapore	1	100.00	6.26	2.87	11.45
South Korea	1	19.00	5.89	2.70	10.64
Israel	1	10.75	7.14	2.65	10.53
United Arab Emirates	1	35.82	6.82	2.23	11.17
Saudi Arabia	1	19.49	6.37	2.06	10.95
Oman	1	32.66	6.85	2.05	10.73
Kuwait	1	12.79	6.02	1.91	11.22
Qatar	1	39.77	6.37	1.23	11.82
Bahrain	1	38.47	6.20	0.54	10.86

Table S2. Data used in the study. Countries are ordered by UGS. We aggregate city-level data to cover at least 10% of total population.

Section S1.2. Normality of the data

We test normality for logarithmic NDVI per capita (UGS) and logarithmic GDP per capita (GDP) after taking a logarithm. The tests show that UGS has a unimodal distribution, but it does not follow a normal distribution, whereas GDP follows a normal distribution. The p-values of the D'Agostino and Pearson's test for UGS and GDP are 0.005 and 0.664, respectively. Also, the p-values of the Shapiro-Wilk test for UGS and GDP are 0.001 and 0.952, respectively. The linear Q-Q plot (Fig. S1) also confirms the normality of the GDP distribution.

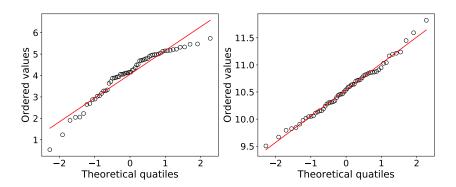


Fig. S1. Q-Q plots of logarithmic NDVI per capita and logarithmic GDP per capita.

Section S2. Robustness of urban green space measures

The result of the regression is robust for any green space measure. In table S3, all nine urban green space measures explain happiness along with GDP, while logarithmic NDVI per capita (UGS) in the model (5) displays the highest value of adjusted R^2 compared to other models.

	(1)	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)
GDPLN	1.0684^{***}	1.0198^{***}	1.1118***	1.0333^{***}	1.1319^{***}	1.1138^{***}	1.0347^{***}	1.1001^{***}	1.0292^{***}
	(0.6455)	(0.6291)	(0.6507)	(0.6264)	(0.6234)	(0.6501)	(0.6266)	(0.6453)	(0.6256)
GreenRatio	0.0101^{**}	ı	1	ı	ı	ı	ı	ı	ı
	(0.0177)								
GreenperCapita	1	0.0020^{**}	1	1	1	1	1	1	1
NDVIMean	ı	(0.000)	1.8166^{**}	,	,	1	1	,	,
			(2.8613)						
NDVIperCapita	1	1	ı,	0.0029^{***}	1	1	1	1	ı
				(0.0042)					
NDVILN	ı	1	1	1	0.2249^{***}	1	1	1	ı
					(0.2643)				
SAVIMean	ı	ı	ı	ı	ı	1.2267^{**}	1	1	ı
						(1.9051)			
SAVIperCapita	ı	ı	ı	ı	ı	ı	0.0019^{***}	ı	ı
							(0.0028)		
EVI2Mean	ı	ı	ı	ı	ı	1	1	0.9462^{**}	ı
								(1.4709)	
EVI2perCapita	ı	1	1	1	1	1	1	1	0.0016^{***}
									(0.0022)
Const	-5.1875***	-4.5886***	-5.8446***	-4.7804***	-6.4709***	-5.8728***	-4.7950***	-5.6947***	-4.7325***
	(6.9109)	(6.6518)	(7.0963)	(6.6389)	(6.8998)	(7.0905)	(6.6423)	(7.0009)	(6.6259)
Adjusted R^2	0.4248	0.4407	0.4363	0.4466	0.4786	0.4379	0.4465	0.4378	0.4476
Observations	09	09	09	09	09	09	09	09	09

Table S3. Regression analysis of happiness with different green space measures, $^{***}p < 0.01$; $^{**}p < 0.05$; $^{*}p < 0.1$.

We check the robustness of UGS in explaining happiness with extra environmental variables. We retrieve the data for the ratio of forest land cover and protected areas from the dataset of UNSD. The ratio of forest land cover and protected areas show the Pearson correlations of 0.4929 and 0.4362 with UGS (p-value of 0.0001 and 0.0006), respectively. Although the ratio of forest land cover and protected area correlated with UGS, they fail to capture the relationship between green space and happiness as UGS do. The regression models (5-8) in Table S4 show that the ratio of forest land cover and protected areas does not improve the model for happiness even with the GDP variable, confirming that the models using UGS are robust for extra environmental variables.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
GDP	1.0208***	-	-	-	1.1259***	1.0475***	1.0120***	1.1594***
	(0.6758)				(0.6341)	(0.6952)	(0.6871)	(0.6601)
UGS	-	0.1338	-	-	0.2285^{***}	-	-	0.3032^{***}
		(0.3634)			(0.2711)			(0.3338)
Forest land cover	-	-	-0.0025	-	-	0.0028	-	-0.0033
			(0.0200)			(0.0161)		(0.0165)
Protected area	-	-	-	0.0033	-	-	0.0011	-0.0038
				(1.0141)			(0.0112)	(0.0116)
Const	-4.3842**	-5.8183***	-6.4433***	-6.1857***	-6.4253***	-4.7509 ^{**}	-4.3514**	-6.7746***
	(7.1240)	(1.5387)	(0.7365)	(0.8705)	(6.9869)	(7.4628)	(7.1878)	(7.2294)
Adjusted R^2	0.3803	0.0199	-0.0130	-0.0022	0.4759	0.3747	0.3710	0.4799
Observations	59	59	59	59	59	59	59	59

Table S4. Regression analysis of happiness with ratio of forest land cover and protected area variables. UAE is excluded from the analysis due to missing data. ***p < 0.01; **p < 0.05; *p < 0.1.

Section S3. Regional influence

As regional characteristics may affect the level of green space, we test the robustness of the green space-happiness relation for regional characteristics. Figure S2 describes the change of USG by latitude. Countries with a tropical climate such as Southeastern Asia, the Caribbean, and Eastern Africa show a relatively high UGS score. In contrast, Western Asian countries show a relatively low UGS score since they are in a dry climate. The UGS score further increases in higher latitudes.

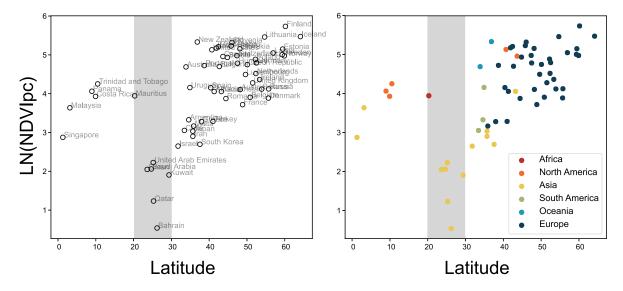


Fig. S2. Scatter plot of UGS and latitude with country (left) and continent (right) marked. Gray area represent the dry climate region.

In Table S5, model (3) includes the latitude of the most populated city, model (4-5) includes dummy variables that tell whether the countries in Western Asia or the dry climate region. These models show that including regional factors does not improve the model.

	(1)	(2)	(3)	(4)	(5)
GDP	1.0120***	1.1319***	1.1275****	1.1142***	1.1347***
	(0.6603)	(0.6234)	(0.6413)	(0.6433)	(0.6297)
UGS	-	0.2249^{***}	0.2181^{**}	0.2585^{***}	0.2055^{**}
		(0.2643)	(0.3302)	(0.3770)	(0.3641)
Latitude	-	-	0.0009	-	=
			(0.0250)		
Western Asia	-	-	-	0.1595	=
				(1.2679)	
Dry Climate	-	-	-	-	-0.0885
					(1.1301)
Const	-4.2945**	-6.4709***	-6.4326***	-6.4422***	-6.4081***
	(6.9672)	(6.8998)	(7.0474)	(6.9518)	(7.0037)
Adjusted R^2	0.3832	0.4786	0.4695	0.4717	0.4702
Observations	60	60	60	60	60

Table S5. Regression analysis of happiness with region variables. ***p < 0.01; **p < 0.05; *p < 0.1.

Section S4. Distribution of green space

Figure S3 describes the distribution of three green space measures. NDVIavg (average NDVI) is calculated by taking the mean NDVI values over the built-up area, representing how much greenery cities have. NDVIpc (average NDVI per capita) is obtained by dividing the total NDVI by the total population. NDVI per capita describes how much green space is provided to a population. However, NDVI per capita shows a skewed distribution, which is not appropriate for regression analysis. Therefore, we take a logarithm of NDVI per capita to get a unimodal distribution of the green space measure.

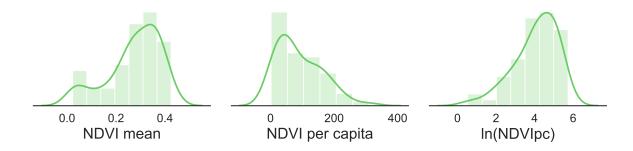


Fig. S3. Distribution plot of NDVI mean, NDVI per capita, logarithmic NDVI per capita

Section S5. Residual analysis

We perform a residual analysis of the regression model in Table 1 to check whether the model is reasonable. First, we need to check the autocorrelation of the residuals by using Durbin-Watson statistics. The Durbin-Watson statistics show a value of 1.918, which indicates there are no autocorrelations between the residuals. Second, we check for the normality of the residuals. The distribution and Q-Q plot of the residuals shows that the residuals satisfy the normality condition. Finally, we check for the equality of variance by finding outliers using Cook's distance. The figure shows that every point has a value of less than 1, indicating acceptable values.

Section S6. The effect of GDP on the green-happiness relation

We can check for a similar result of Fig. 3(c) in the manuscript by calculating the Pearson correlation instead of the regression coefficient. Figure S5 shows a similar diminishing effect of green space as the group contains lower GDP countries. In contrast, log-GDP shows the most strong correlations for the entire dataset containing lower GDP groups.

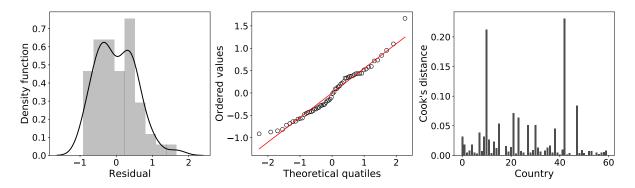


Fig. S4. Residual analysis of the regression model. (left) The distribution, (middle) Q-Q plot, and (right) cook's distance of residuals.

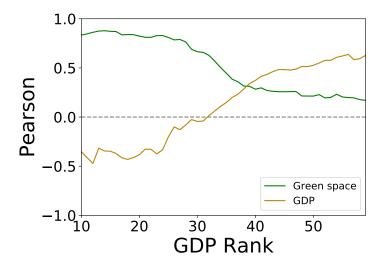


Fig. S5. Changes of the Pearson correlation between urban green space and happiness for different sets of GDP rank with increasing window size from top 10 to 60.

Section S7. Happiness Report variables

To describe the happiness scores, World Happiness Report provides six main variables: GDP, social support, life expectancy, freedom, generosity, and corruption perceptions. Social support and freedom are based on binary responses (yes or no) to World Gallup Poll (WGP) questions; "If you were in trouble, do you have relatives or friends you can count on to help you whenever you need them, or not?", and "Are you satisfied or dissatisfied with your freedom to choose what you do with your life?", respectively. generosity is the residual of regression for responses for a WGP question "Have you donated money to a charity in the past month?" on GDP per capita. Corruption perceptions is based on the response to WGP question, "Is corruption widespread throughout the government or not?" and "Is corruption widespread within businesses or not?" Life expectancy is based on the Global Health Observatory data from World Health Organization (WHO).

Here, we check how our analyses fit into these six variables. The data of 6 variables are retrieved from the World Happiness Report, and we took a 3-year average. Figure S6 shows the scatter plots between UGS and six variables in the World Happiness Report. Note that the scatter plot between UGS and social support presents a relatively strong Pearson correlation of 0.4329, while the other variables are not correlated with UGS. Therefore, we speculate that UGS is connected with the social support variable, which should be considered in constructing regression models.

Since the data for corruption perceptions is missing for six countries, and it seems to fail to explain happiness well for developed countries' dataset, we checked the regression with and without corruption perception. The regression model (1) shows that UGS can explain happiness in place of social support, even although the adjusted R-square value is smaller compared to model (2), which includes social

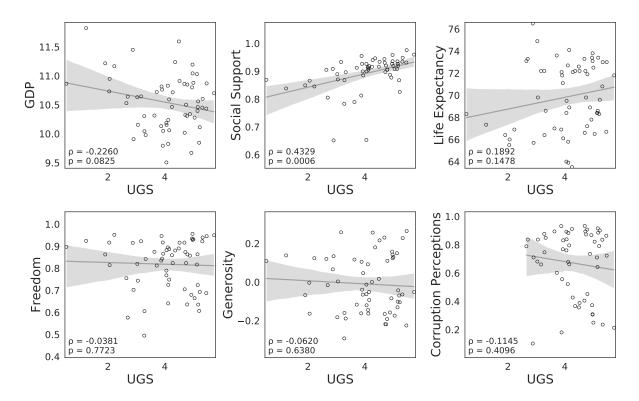


Fig. S6. Scatter plot between UGS and variables in World Happiness Report. ρ indicates the Pearson correlation.

support. Furthermore, model (3), which includes both UGS and social support, shows that UGS loses its explainability while social support. The same result can be found in the model (4-6).

Section S8. Regressions with extra socioeconomic variables

While we use variables from the World Happiness Report, many other socioeconomic variables may be related to happiness. Here, we examine the robustness of the relationship between urban green space and happiness for extra control variables: health expenditure, unemployment, education and gender inequality. The data for health expenditure (percentage of current health expenditure compared to GDP) and the unemployment rate are retrieved from the dataset of UNSD. Education Index and Gender Inequality Index are retrieved from the Human Development Report 2016 and the UNDP Human Development Reports 2020.

Fig. S7 displays the relationship between adopted extra socioeconomic variables, happiness, social support, and UGS. The health expenditure and the education index show positive correlations with happiness and social support, while the unemployment rate and the gender inequality index show negative correlations with happiness and social support. Note that health expenditure and education index show significantly high Pearson correlations with UGS.

We investigate whether adopting extra socioeconomic variables would affect our conclusions. Table S7 show the regression models with extra control variables. When every control variables are included (i.e., the models (3-4)), UGS does not have significance in explaining happiness since UGS has strong multicollinearity with the health expenditure (i.e., the Pearson correlation ρ is 0.47) and the education index (i.e., $\rho = 0.57$) as shown in Fig. S7. When this multicollinearity is removed by excluding the health expenditure and the education index, adopting UGS increases the adjusted R-square value, and UGS has significance in the model (6). Therefore, the green space-happiness relation is robust for including extra control variables.

In Table S8, we check the robustness of the regression models for social support. UGS significantly explains social support along with every other variable in the models (1-5). Furthermore, in the models (6-7) with every variable, adopting UGS significantly increases the adjusted R-square value. In conclusion, the explanatory power of UGS for social support is robust for including extra control variables, and we

	Without	corruption pe	erceptions	With corruption perceptions			
	(1)	(2)	(3)	(4)	(5)	(6)	
GDP	0.5187***	0.2388^{*}	0.2779^*	0.4694**	0.1482	0.1512	
	(0.6508)	(0.5344)	(0.5991)	(0.9038)	(0.8178)	(0.8243)	
UGS	0.1690***	-	0.0339	0.1729^{**}	-	0.0442	
	(0.2263)		(0.2290)	(0.3255)		(0.3018)	
Social Support	-	5.1863^{***}	4.8452***	-	5.2457^{***}	4.9787^{***}	
		(3.6667)	(4.3514)		(4.2056)	(4.6136)	
Life Expectancy	0.0606***	0.0556^{***}	0.0535^{***}	0.0558^{**}	0.0557^{**}	0.0580^{**}	
	(0.0872)	(0.0733)	(0.0751)	(0.1115)	(0.0929)	(0.0950)	
Freedom	2.4609***	1.7472^{***}	1.7652^{***}	2.2086***	1.5238^{**}	1.5036^{**}	
	(2.6342)	(2.3277)	(2.3463)	(2.9002)	(2.5320)	2.5549)	
Generosity	0.6584	1.0520^{**}	1.0346**	0.60031	1.0493^{**}	1.0563^{**}	
	(2.0066)	(1.7401)	(1.7555)	(2.2309)	(1.9306)	(1.4819)	
Corruption Perceptions	-	-	-	-0.3589	-0.3109	-0.3039	
				(1.7389)	(8.6572)	(8.7725)	
Const	-6.0323***	-6.0873***	-6.2005***	-4.7584*	-4.8097**	-4.9458**	
	(7.1740)	(6.0731)	(6.1610)	(10.2984)	(8.5672)	(8.7725)	
Adjusted R^2	0.6753	0.7638	0.7609	0.6823	0.7730	0.7698	
Observations	59	59	59	54	54	54	

Table S6. Regression analysis of happiness with (1-3) 5 variables and (4-6) 6 variables in the World Happiness Report. We separated the models with corruption perceptions since few countries are missing data: Oman is excluded from the model (1-3), and Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates are excluded from the model (4-6). ***p< 0.01; **p< 0.05; *p< 0.1.

construct the moderated mediation model for happiness, UGS, GDP and social support based on this robustness.

Section S9. Moderated mediation model for regression

A moderation and mediation technique can provide a more sophisticated regression model that describes more detailed pathways behind simple regression.

The mediation model describes indirect effects of mediation variables by a two-staged regression model. We apply the moderation model for log-GDP since we checked that the regression analyses for social support depend on the GDP value, which can be described with a cross-term. We can set up the regression model as follows:

$$H = \beta_0 + \beta_1 M + \beta_2 S + \beta_3 SM$$
$$S = \beta_4 + \beta_5 G$$

Now, the mediation model can be validated by comparing the multilinear regression model with its explanation of power. We check whether green space is related to happiness through social support.

In Table S9, the models (1-3) describe the effect of UGS and social support on happiness. UGS and social support can explain happiness and GDP in the model (1) and (2). However, UGS loses its explainability when we include both UGS and social support in the model (3), which implies that UGS only indirectly affects happiness compared to social support. Note that our mediation model was valid for GDP, so the moderated mediation model would be more appropriate.

The moderation effect of the model can be validated by calculating the regression model with a cross-term. We check several moderation models for different pairwise relations: moderation for green-social, social-happiness, and green-happiness. We find that the moderation effect emerges for the social-happiness relation with a higher adjusted R-square value and a significantly low p-value (Table S9 model (4)). Therefore, we conclude that green space is related to happiness through social support, and GDP moderates social support on happiness.

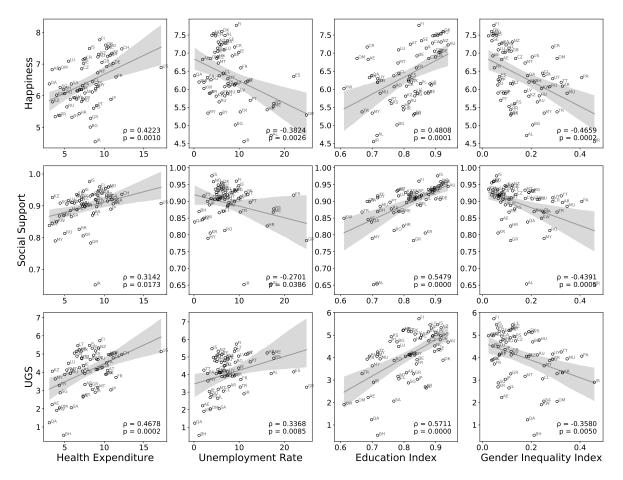


Fig. S7. Scatter plot of extra variables with happiness (top), social support (middle) and UGS (bottom). ρ indicates the Pearson correlations and p indicates p-values.

Section S10. Derivation of happiness equation

How much do we need green space to increase our happiness? Since our analyses are based on regression models, we can provide a numerical estimation of the required green space corresponding to a certain increment of happiness. Let us consider our final regression model:

$$H = \beta_0 + \beta_1 \ln M + \beta_2 S + \beta_3 S \ln M,$$

$$S = \beta_4 + \beta_5 \ln G,$$

where H is the happiness score, M is GDP per capita, S is social support, and G is UGS. If we substitute social support into the equation, we obtain the following equation as

$$H = \beta_0' + (\beta_1' + \beta_2' \ln M) \ln G + \beta_3' \ln M.$$

If we assume that the value of GDP per capita stays the same, we can solve a fraction of green space change to increase a certain amount of happiness. We set the happiness score change to 0.0546, which is an average value for upgrading one rank.

$$\frac{G_f}{G_i} = \exp\left(\frac{\Delta H}{\beta_1' + \beta_2' \ln M}\right).$$

Country	Green Space [%]	NDVI per capita	GDP per capita [dollar]
Qatar	14.50	0.4981	7556
Luxembourg	16.00	14.3032	6004
Singapore	17.10	3.0292	5199
Ireland	19.04	14.9560	4205

Kuwait 19.26 1.2950 4115 Norway 19.49 28.2059 4026				
United Arab Emirates Switzerland United States Saudi Arabia United States Saudi Arabia Netherlands Sweden 23.05 Sweden 23.05 21.1280 3032 Sweden 23.05 Sweden 23.05 Sweden 23.05 Sweden 33.52 35.0743 2941 Iceland Bahrain 23.68 So.2871 2909 Australia Germany Australia 23.80 Septimany Australia 24.31 Septimany Denmark 24.53 Australia Canada Belgium 25.48 11.9521 2761 Belgium 26.66 Belgium 26.66 2.0204 2535 France 26.29 10.8164 2504 United Kingdom 26.37 Spain Australia 27.81 South Korea 27.90 4.1332 2315 South Korea Japan New Zealand 28.75 Spain Spain 18aly 29.80 Spain 18aly 29.80 Septimany Spain Slovakia 32.44 Soloss Slovakia 32.44 Soloss Slovakia Slovenia Slovakia 32.72 Gen State Belgium 33.86 Gen Septimany Australia Australi	Kuwait			
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Iceland Bahrain 23.75	Netherlands	23.05	21.1280	3032
Bahrain 23.75 0.4071 2896 Australia 23.80 25.8874 2888 Germany 23.99 28.9519 2853 Austria 24.31 14.7517 2797 Denmark 24.53 11.9521 2761 Canada 24.81 35.3155 2716 Belgium 25.48 12.6587 2615 Oman 26.06 2.0204 2535 France 26.29 10.8164 2504 United Kingdom 26.37 18.9955 2495 Finland 26.68 82.4975 2455 Malta 27.81 6.5911 2325 South Korea 27.90 4.1332 2315 Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Isaa 18.94 29.80 52.6365 2133 Israel 30.58 4.3248	Sweden	23.52	35.0743	2941
Australia Germany 23.99 28.9519 2853 Austria 24.31 14.7517 2797 Denmark 24.53 11.9521 2761 Canada 24.81 35.3155 2716 Belgium 25.48 12.6587 2615 Oman 26.06 2.0204 2535 France 26.29 10.8164 2504 United Kingdom 26.37 18.9955 2495 Malta 27.81 6.5911 2325 South Korea 27.90 4.1332 2315 Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Poland 36.40 48.1184 1715 Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 1670 Hungary 37.63 45.0125 1660 Greece 37.85 10.0445 1652 Latvia 38.86 60.5196 1611 Russia 40.60 25.0656 1549 Kazakhstan 43.12 24.8977 1470 Panama 44.84 26.0437 1424 Chile 44.84 9.5004 1424 Romania 46.17 22.2308 1391 Croatia 47.31 88.2509 1365 Uruguay 50.84 32.4731 1295 Mauritius 51.53 26.5892 1283 Turkey 51.91 13.8637 1276 Bulgaria 54.05 59.3985 1241 Argentina 67.46 1112 Montenegro 72.63 132.6388 1045 Belarus 75.81 46.5536 1023 Serbia 111.22 154.5325 876	Iceland	23.68	56.2871	2909
Germany 23.99 28.9519 2853 Austria 24.31 14.7517 2797 Denmark 24.53 11.9521 2761 Canada 24.81 35.3155 2716 Belgium 25.48 12.6687 2615 Oman 26.06 2.0204 2535 France 26.29 10.8164 2504 United Kingdom 26.37 18.9955 2495 Finland 26.68 82.4975 2455 Malta 27.81 6.5911 2325 South Korea 27.90 4.1332 2315 Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 I taly 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089	Bahrain	23.75	0.4071	2896
Austria 24.31 14.7517 2797	Australia	23.80	25.8874	2888
Denmark Canada 24.81 35.3155 2716 Belgium 25.48 12.6587 2615 Oman 26.06 2.0204 2535 France 26.29 10.8164 2504 United Kingdom 26.37 18.9955 2495 Finland 26.68 82.4975 2455 Malta 27.81 6.5911 2325 South Korea 27.90 4.1332 2315 Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovakia 32.44 56.3721 1934 Estonia 34.51 59.4736	Germany	23.99	28.9519	2853
Canada 24.81 35.3155 2716 Belgium 25.48 12.6587 2615 Oman 26.06 2.0204 2535 France 26.29 10.8164 2504 United Kingdom 26.37 18.9955 2495 Finland 26.68 82.4975 2455 Malta 27.81 6.5911 2325 South Korea 27.90 4.1332 2315 Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovakia 32.272 66.8141	Austria	24.31	14.7517	2797
Belgium 25.48 12.6587 2615 Oman 26.06 2.0204 2535 France 26.29 10.8164 2504 United Kingdom 26.37 18.9955 2495 Finland 26.68 82.4975 2455 Malta 27.81 6.5911 2325 South Korea 27.90 4.1332 2315 Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovakia 32.44 56.3721 1934 Estonia 33.22 78.0579 1885 Estonia 34.51 59.4736	Denmark	24.53	11.9521	2761
Oman France 26.06 2.0204 2535 France France 26.29 10.8164 2504 United Kingdom 26.37 18.9955 2495 Finland Malta 27.81 6.5911 2325 South Korea 27.90 4.1332 2315 Japan Japan 28.12 5.8425 2292 New Zealand Spain Japan Japa	Canada	24.81	35.3155	2716
France 26.29 10.8164 2504 United Kingdom 26.37 18.9955 2495 Finland 26.68 82.4975 2455 Malta 27.81 6.5911 2325 South Korea 27.90 4.1332 2315 Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 <td>Belgium</td> <td>25.48</td> <td>12.6587</td> <td>2615</td>	Belgium	25.48	12.6587	2615
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Malta 27.81 6.5911 2325 South Korea 27.90 4.1332 2315 Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Poland 36.40 48.1184 1715 Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 1670 Hungary 37.63 45.0125 1660 Greece 37.85 10.0445	United Kingdom	26.37	18.9955	2495
South Korea 27.90 4.1332 2315 Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Portugal 37.03 41.6695 1686 Malaysia 37.40 48.1184 1715 Portugal 37.63 45.0125 1660 Greece 37.85 10.0445 1652 Latvia 38.86 60.5196 1611 Russia 40.60 25.0656	Finland	26.68	82.4975	2455
Japan 28.12 5.8425 2292 New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Poland 36.40 48.1184 1715 Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 1670 Hungary 37.63 45.0125 1660 Greece 37.85 10.0445 1652 Latvia 38.86 60.5196 1611 Russia 40.60 25.0656	Malta	27.81	6.5911	2325
New Zealand 28.75 59.4447 2229 Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Poland 36.40 48.1184 1715 Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 1670 Hungary 37.63 45.0125 1660 Greece 37.85 10.0445 1652 Latvia 38.86 60.5196 1611 Russia 40.60 25.0656 1549 Kazakhstan 43.12 24.8977	South Korea	27.90	4.1332	2315
Spain 29.00 18.4593 2205 Italy 29.80 52.6365 2133 Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Poland 36.40 48.1184 1715 Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 1670 Hungary 37.63 45.0125 1660 Greece 37.85 10.0445 1652 Latvia 38.86 60.5196 1611 Russia 40.60 25.0656 1549 Kazakhstan 43.12 24.8977 1470 Panama 44.84 9.5004	Japan	28.12	5.8425	
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Israel 30.58 4.3248 2069 Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Poland 36.40 48.1184 1715 Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 1670 Hungary 37.63 45.0125 1660 Greece 37.85 10.0445 1652 Latvia 38.86 60.5196 1611 Russia 40.60 25.0656 1549 Kazakhstan 43.12 24.8977 1470 Panama 44.84 26.0437 1424 Chile 44.84 9.5004 1424 Romania 46.17 22.2308	Spain	29.00	18.4593	2205
Czech Republic 31.29 36.0511 2015 Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Poland 36.40 48.1184 1715 Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 1670 Hungary 37.63 45.0125 1660 Greece 37.85 10.0445 1652 Latvia 38.86 60.5196 1611 Russia 40.60 25.0656 1549 Kazakhstan 43.12 24.8977 1470 Panama 44.84 26.0437 1424 Chile 44.84 26.0437 1424 Romania 46.17 22.2308 1391 Croatia 47.31 88.2509	Italy	29.80	52.6365	2133
Trinidad and Tobago 32.34 22.7089 1941 Slovakia 32.44 56.3721 1934 Slovenia 32.72 66.8141 1916 Lithuania 33.22 78.0579 1885 Estonia 34.51 59.4736 1810 Poland 36.40 48.1184 1715 Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 1670 Hungary 37.63 45.0125 1660 Greece 37.85 10.0445 1652 Latvia 38.86 60.5196 1611 Russia 40.60 25.0656 1549 Kazakhstan 43.12 24.8977 1470 Panama 44.84 26.0437 1424 Chile 44.84 9.5004 1424 Romania 46.17 22.2308 1391 Croatia 47.31 88.2509 1365 Uruguay 50.84 32.4731 <td< td=""><td>Israel</td><td>30.58</td><td>4.3248</td><td>2069</td></td<>	Israel	30.58	4.3248	2069
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Portugal 37.03 41.6695 1686 Malaysia 37.40 14.1884 1670 Hungary 37.63 45.0125 1660 Greece 37.85 10.0445 1652 Latvia 38.86 60.5196 1611 Russia 40.60 25.0656 1549 Kazakhstan 43.12 24.8977 1470 Panama 44.84 26.0437 1424 Chile 44.84 9.5004 1424 Romania 46.17 22.2308 1391 Croatia 47.31 88.2509 1365 Uruguay 50.84 32.4731 1295 Mauritius 51.53 26.5892 1283 Turkey 51.91 13.8637 1276 Bulgaria 54.05 59.3985 1241 Argentina 57.43 15.9950 1193 Iran 64.68 11.7746 1112 Montenegro 72.63 132.6388 1045 Belarus 75.81 46.5536 1023 <t< td=""><td></td><td></td><td></td><td></td></t<>				
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Latvia 38.86 60.5196 1611 Russia 40.60 25.0656 1549 Kazakhstan 43.12 24.8977 1470 Panama 44.84 26.0437 1424 Chile 44.84 9.5004 1424 Romania 46.17 22.2308 1391 Croatia 47.31 88.2509 1365 Uruguay 50.84 32.4731 1295 Mauritius 51.53 26.5892 1283 Turkey 51.91 13.8637 1276 Bulgaria 54.05 59.3985 1241 Argentina 57.43 15.9950 1193 Iran 64.68 11.7746 1112 Montenegro 72.63 132.6388 1045 Belarus 75.81 46.5536 1023 Costa Rica 80.85 41.1266 993 Serbia 111.22 154.5325 876	Hungary	37.63	45.0125	
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Serbia 111.22 154.5325 876				
Albania 213.00 122.9685 744				
	Albania	213.00	122.9685	744

Table S10. Required green spaces and GDP to increase happiness by 0.0546.

	(1)	(2)	(3)	(4)	(5)	(6)
UGS	-	0.2247***	-	0.1174	-	0.2054**
		(0.2680)		(0.3432)		(0.3103)
GDP	0.9483***	1.0686^{***}	0.5780^{***}	0.6812^{***}	0.5041^{**}	0.7434^{***}
	(0.7092)	(0.6677)	(0.8492)	(0.8948)	(0.9105)	(0.9364)
Unemployment	-	-	-0.0415**	-0.0443**	-0.0370*	-0.0403**
			(0.0746)	(0.0745)	(0.0801)	(0.0762)
Gender Inequality Index	-	-	-1.1271	-0.9583	-2.6266***	-1.3500
			(4.5005)	(4.4919)	(3.6477)	(3.9617)
Health Expenditure	-	-	0.0919^{***}	0.0844^{**}	-	-
			(0.1326)	(0.1333)		
Education Index	-	-	1.0169	0.2253	-	-
			(5.6305)	(6.0460)		
Const	-3.6078*	-5.7865***	-0.7550	-1.6253	-1.7681	-1.7666
	(7.5034)	(7.3723)	(11.5649)	(11.7516)	(10.3076)	(11.1418)
Adjusted R^2	0.3270	0.4315	0.5081	0.5163	0.4008	0.4612
Observations	58	58	58	58	58	58

Table S7. Regression analysis for happiness with extra control variables. Albania and Montenegro are excluded from the analysis due to missing data. ****p < 0.01; **p < 0.05; *p < 0.1.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
UGS	0.0288***	0.0228***	0.0303***	0.0149**	0.0193***	-	0.0234***
	(0.0209)	(0.0250)	(0.0219)	(0.0253)	(0.0217)		(0.0266)
GDP	0.432***	-	-	-	-	-0.0148	0.0055
	(0.0506)					(0.0726)	(0.0696)
Health Expenditure	-	0.0021	-	-	-	0.0016	0.0001
		(0.0107)				(0.0113)	(0.0103)
Unemployment	-	-	-0.0041***	-	-	-0.0032**	-0.0038**
			(0.0053)			(0.0063)	(0.0058)
Education Index	-	-	-	0.2576^{***}	-	0.2138*	0.0585
				(0.3609)		(0.4830)	(0.4714)
Gender Inequality Index	-	-	-	-	-0.1907***	-0.1844*	0.1517^{*}
					(0.2334)	(0.3836)	(0.3489)
Const	0.3247^{**}	0.7883^{***}	0.8048^{***}	0.6276^{***}	0.8487^{***}	0.9202***	0.7479^{***}
	(0.5597)	(0.1020)	(0.0884)	(0.2520)	(0.1082)	(0.9840)	(0.9113)
Adjusted R^2	0.3765	0.2507	0.3550	0.3416	0.3675	0.3217	0.4458
Observations	57	57	57	57	57	57	57

Table S8. Regression analysis for social support with extra variables. Albania, Montenegro and Oman are excluded from the analysis due to missing data. *** p < 0.01; ** p < 0.05; * p < 0.1.

	(1)	(2)	(3)	(4)
log-GDP	1.1321***	0.7168***	0.7936***	-4.1830**
	(0.6193)	(0.5687)	(0.6336)	(6.566)
$\overline{\mathrm{UGS}}$	0.2457^{***}	-	0.0782	-
	(0.2697)		(0.2863)	
Social Support	-	6.3899^{***}	5.5731^{***}	-50.1512**
		(4.4264)	(5.3363)	(75.625)
log-GDP:Social Support	-	-	-	5.5583^{***}
				(7.423)
Const	-6.5695***	-6.8962***	-7.2953***	42.8656^{**}
	(6.8599)	(5.9001)	(6.0703)	(66.687)
Adjusted R^2	0.4912	0.6057	0.6071	0.6550
Observations	59	59	59	59

Table S9. Regression analysis for the moderated mediation model. Coefficient of GDP-Social Support represent cross term of GDP and social support. ****p < 0.01; ***p < 0.05; *p < 0.1.

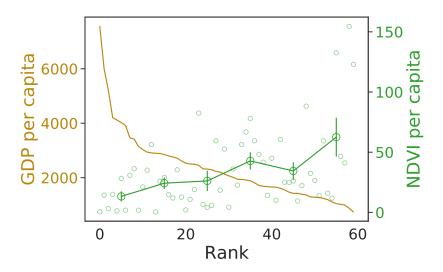


Fig. S8. Required GDP per capita (yellow) and NDVI per capita (green) to increase average amount of happiness to rank up by 1.